

CLAIMS

1. A multilayer structure, with excellent fuel barrier performance, comprising at least two layers of saponified ethylene-vinyl acetate copolymer (EVOH) layer and polyamide layer, said polyamide layer comprising 100 parts by weight of a polyamide resin and from 0.2 to 5 parts by weight of a layered silicate uniformly dispersed in the polyamide resin.

5 2. A multilayer structure, with excellent fuel barrier performance, comprising two polyamide layers having interposed therebetween a saponified ethylene vinyl acetate copolymer (EVOH) layer, the polyamide layer comprising 100 parts by weight of a polyamide resin and from 0.2 to 5 parts by weight of a layered silicate uniformly dispersed in the polyamide resin.

10 3. The multilayer structure as claimed in claim 1 or 2, which further comprises a polyolefin layer.

15 4. The multilayer structure as claimed in claim 3, wherein the polyolefin is modified with an unsaturated carboxylic acid or a derivative thereof.

20 5. The multilayer structure as claimed in claim 3, wherein the EVOH layer or polyamide layer and the polyolefin layer are stacked through a polyolefin layer modified with an unsaturated carboxylic acid or a derivative thereof.

25 6. The multilayer structure as claimed in claim 1 or 2, wherein the layered silicate has a one-side length of 0.002 to 1 μm and a thickness of 6 to 20 Å and is uniformly dispersed in the polyamide resin while keeping each interlayer distance 20 Å or more, on average.

30 7. The multilayer structure as claimed in any one of claims 1 to 6, wherein the thickness of the EVOH layer is from 3 to 40% of the thickness of the entire multilayer structure and the thickness of the polyamide layer stacked on said EVOH layer is from 30 to 200% of the thickness of the EVOH layer.

35 8. A hollow container using the multilayer

structure claimed in any one of claims 1 to 7.

9. A fuel part using the multilayer structure
claimed in any one of claims 1 to 7.